Acronal A 240 na

Acronal® A 240 na is an APEO-free, aqueous adhesive dispersion used to manufacture pressure-sensitive adhesives for self-adhesives articles

Chemical nature **Acrylic copolymer dispersion containing carboxyl groups**

Properties

Typical Properties	Solids content	%	~ 50.0
	pH value		~ 5.5
	Viscosity at 23 °C, (Brookfield RV, Spindle #2, at 100 rpm)	cP	100 – 225
Further properties of the dispersion	Density	g/cm³	approx. 1.1
	Average particle size	µm	approx. 0.2
	Film-forming temperature	°C	< 1 min.
	Freeze/thaw resistance		not resistant to freezing
	Dispersion type		anionic
Properties of the film	Bulk density	g/cm³	ca. 1.04
	Glass transition temperature T_g (DSC)	°C	ca. - 30
	Appearance		clear, transparent
	Stability to light		good
	Surface		highly tacky

Compatible with

Polymer dispersions	Anionic dispersions and those containing a protective colloid.
Thickeners	Rheovis® PU, Rheovis® AS 1125
Plasticizers	Loxanol® PL 5060
Resins	Modified and unmodified natural resins; these are added as solutions or dispersions.

* These typical values should not be interpreted as specifications.

Application

Acronal A 240 na is used in the manufacture of self-adhesive labels, films and tapes. Due to excellent plasticizer resistance, it is particularly recommended for coating plasticized PVC film. However, since the effect of plasticizers on pressure-sensitive adhesives depends on the type and quantity of the plasticizers in the film, thorough trials, particularly storage trials, must be carried out before starting production of such articles.

Processing If Acronal A 240 na is to be mixed with another dispersion, the pH should be adjusted to the slightly alkaline range. Note that the viscosity increases when the pH is raised.

Adhesives based on Acronal A 240 na can be applied to the carrier material with the usual coating systems; e. g., mayer rod, reverse roll, reverse gravure, vario gravure, slot die and curtain applicators. In the event of poor wetting, it is often helpful to add about 0.5% of a wetting agent such as Lumiten® I-SC.

We recommend adding a preservative to adhesives and coating materials that contain Acronal A 240 na to protect them from microbial attack, particularly if their pH lies in the neutral range. The suitability of such additives must be verified and monitored in trials.

Safety

General

The usual safety precautions when handling chemicals must be observed. These include the measures described in Federal, State and Local health and safety regulations, thorough ventilation of the workplace, good skin care and wearing of protective goggles.

Safety Data Sheet

All safety information is provided in the Safety Data Sheet for Acronal A 240 na.

Storage

Please refer to the “Handling and Storage of polymer dispersions” brochure.

Important

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